

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)
(PCT Article 36 and Rule 70)



Applicant's or agent's file reference P205-0080WO	FOR FURTHER ACTION		See Form PCT/IPEA/416
International application No. PCT/JP2005/006569	International filing date (day/month/year) 29.03.2005	Priority date (day/month/year) 30.03.2004	
International Patent Classification (IPC) or national classification and IPC Int.Cl. G06F13/38 (2006.01) i, G06F3/12 (2006.01) i, H04L12/28 (2006.01) i			
Applicant CANON KABUSHIKI KAISHA			

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of <u>3</u> sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising:
a. <input checked="" type="checkbox"/> a total of <u>3</u> sheets, as follows:
<input checked="" type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
<input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
b. <input type="checkbox"/> a total of (indicate type and number of electronic carrier(s)) _____ containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).
4. This report contains indications relating to the following items:
<input checked="" type="checkbox"/> Box No. I Basis of the report
<input type="checkbox"/> Box No. II Priority
<input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/> Box No. IV Lack of unity of invention
<input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input type="checkbox"/> Box No. VI Certain documents cited
<input type="checkbox"/> Box No. VII Certain defects in the international application
<input type="checkbox"/> Box No. VIII Certain observations on the international application

Date of submission of the demand 24.11.2005	Date of completion of this report 21.07.2006
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2005/006569

Box No. I Basis of the report

1. With regard to the **language**, this report is based on:
 - the international application in the language in which it was filed
 - a translation of the international application into _____, which is the language of a translation furnished for the purposes of:
 - international search (Rules 12.3(a) and 23.1(b))
 - publication of the international application (Rule 12.4(a))
 - international preliminary examination (Rules 55.2(a) and/or 55.3(a))
2. With regard to the **elements** of the international application, this report is based on (*replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report*):
 - the international application as originally filed/furnished
 - the description:

pages 1-31 _____ as originally filed/furnished

pages* _____ received by this Authority on _____

pages* _____ received by this Authority on _____
 - the claims:

Nos. 2-9, 11-18 _____ as originally filed/furnished

Nos.* _____ as amended (together with any statement) under Article 19

Nos.* 1, 10 _____ received by this Authority on 24.11.2005

Nos.* _____ received by this Authority on _____
 - the drawings:

sheets/figs 1-11 _____ as originally filed/furnished

sheets/figs * _____ received by this Authority on _____

sheets/figs * _____ received by this Authority on _____
 - a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3. The amendments have resulted in the cancellation of:
 - the description, pages _____
 - the claims, Nos. _____
 - the drawings, sheets/figs _____
 - the sequence listing (*specify*): _____
 - any table(s) related to sequence listing (*specify*): _____
4. This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
 - the description, pages _____
 - the claims, Nos. _____
 - the drawings, sheets/figs _____
 - the sequence listing (*specify*): _____
 - any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

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Box No. V **Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims	1-18	YES
	Claims	_____	NO
Inventive step (IS)	Claims	_____	YES
	Claims	1-18	NO
Industrial applicability (IA)	Claims	1-18	YES
	Claims	_____	NO

2. Citations and explanations(Rule 70.7)

D1:JP 2003-256170 A (SEIKO-EPSON KABUSHIKI KAISHA) 2003.09.10, paragraph[0048] -[0049] , FIG 4

D2:JP 2004-078359 A (NIIGATA CANOTEC KABUSHIKI KAISHA) 2004.03.11, paragraph[0040] , FIG 1

The subject matter of claim 1-18 does not appear to involve an inventive step in view of D1 and D2. D1 discloses that USB host (printer20) issues "Interrupt In" command to USB device (digital camera10) on S13, and USB host (printer20) issues file-request command to USB device (digital camera10) on S15, and USB host (printer20) imports the resource file from USB device (digital camera10) on S16. Said "Interrupt In" command and file-request command correspond to "data-receiving request" and "data-request command" of claim 1-18 respectively. The technical feature [image processing apparatus, communication terminal, information processing apparatus] is not disclosed in D1. However, said feature is disclosed in paragraph[0040] in D2 (refer to [printserver100, USB port112, printer304, client301] .). Therefore, the person skilled in the art would easily conceive the idea of applying said technical feature of wireless-LAN disclosed in D2 to said USB device and USB host disclosed in D1. In addition, Neither D1 nor D2 discloses "information related to the network". However, transmitting any "information related to the network" from USB device to USB host is generally known to the person skilled in the art.

CLAIMS

1. (amended) An image processing apparatus connected with a communication terminal having a USB host controller via a USB interface having a USB function controller, for transmitting and receiving data to/from an information processing apparatus included in a network with which the communication terminal is connected, the apparatus comprising:
 - operation means, operated by a user, for inputting information to arrange information related to the network;
 - issuance means for issuing a data-receiving request to the communication terminal via the USB interface;
 - transmission means for transmitting the information related to the network, arranged by input using said operation means, to the communication terminal, in correspondence with a data-request command sent from the USB host controller in response to the data-receiving request; and
 - communication control means for communicating with the information processing apparatus via the communication terminal using the information related to the network.

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2. The image processing apparatus according to claim 1, further comprising:
 - means for issuing a data request to the

through the first USB interface.

9. The image processing system according to claim 4,
wherein said image processing unit further has a
5 display unit and a second USB function controller,
and wherein the display unit displays a value
inputted from the console via the second USB function
controller.

10 10. (amended) A control method for an image processing
apparatus connected with a communication terminal
having a USB host controller via a USB interface having
a USB function controller, which performs data
transmission/reception to/from an information
15 processing apparatus included in a network with which
the communication terminal is connected, the method
comprising:
an input step of inputting information to arrange
information related to the network operated by a user;
20 an issuance step of issuing a data-receiving
request to the communication terminal via the USB
interface;
a transmission step of transmitting the
information related to the network, arranged by input
25 in said input step, to the communication terminal, in
correspondence with a data-request command sent from
the USB host controller in response to the data-
receiving request; and

a communication control step of communicating with the information processing apparatus via the communication terminal using the information related to the network.

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11. The control method according to claim 10, further comprising:

a step of issuing a data request to the communication terminal via the USB interface; and

10 a reception step of receiving the information related to the network sent from the USB host controller in response to the data request.

12. The control method according to claim 10, wherein
15 the network is a wireless network, and the information related to the network includes an encryption key in the image processing apparatus and the information processing apparatus.

20 13. A control method for an image processing system having: a wireless communication unit having a wireless communicator to execute data transmission/reception to/from an information processing apparatus via a wireless communication channel and a USB host
25 controller; and an image processing unit, having a console to arrange a value for communication by the wireless communication unit via the wireless